IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) ~~Audio~~ An audio enhancement system ~~(1),~~ comprising:

audio signal ~~(z, y, x)~~ inputs for a distorted desired signal ~~(z, x)~~ and at least a reference signal ~~(y),~~; and

a spectral processor ~~(PP)~~ coupled to the audio signal ~~(z, y, x)~~ inputs for processing the distorted desired signal in order to provide just the desired signal, said spectral processor using~~(z, x) by means of~~ the at least one reference signal ~~(y) acting~~ as an estimate for the distortion of the desired signal ~~(z, x)~~, characterized in that the spectral processor ~~(PP) is arranged for modifying said processing~~processes said distorted desired signal in such a way that the estimate for the distortion is a function of A times the spectral power of the at least one reference signal ~~(y)~~, where A is a ratio between the time averaged spectral power of the distortion of the desired signal and the time averaged spectral power of the at least one reference signal ~~(y)~~.

2. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~as claimed in claim 1, characterized in that the estimate for the distortion is at least partly proportional to A times the spectral power of the ~~a1~~ at least one reference signal ~~(y)~~.

3. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 1, characterized in that the estimate for the distortion at least partly depends on the signal to noise ratio of the distorted desired signal ~~(z, r)~~.

4. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 1, characterized in that the respective spectral powers are defined by ~~some~~ a positive function of the spectral power concerned, ~~such as~~ said positive function being one of the spectral magnitude, the squared spectral magnitude, the power spectral density or the Mel-scale smoothed spectral density.

5. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 1, characterized in that the ratio A is calculated based on data acquired during absence of the desired signal.

6. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 5, characterized in that the speech enhancement system ~~(1)~~ further comprises a speech activity detector ~~(DET), which is~~ coupled to the spectral processor ~~(PP)~~.

7. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 1, characterized in that the audio

enhancement system ~~(1)~~ further comprises adaptive microphone filter means ~~(3)~~ coupled to the spectral processor ~~(PP)~~.

8. (Currently Amended) ~~Audio~~ The audio enhancement system ~~(1) according to~~ as claimed in claim 1, characterized in that the audio enhancement system ~~(1)~~ further comprises one or more loudspeakers ~~(6)~~ and echo cancelling filter means ~~(7)~~ coupled between the ~~at least~~ one ~~loudspeaker (6)~~ or more loudspeakers and the spectral processor ~~(PP)~~.

9. (Currently Amended) ~~System, in particular a~~ A communication system~~, for example a hands free communication device, such as a mobile telephone, or a voice controlled system, which system is~~ provided with an audio enhancement system ~~(1)~~, the audio enhancement system ~~(1)~~ comprising:

audio signal ~~(z, r, y)~~ inputs for a distorted desired signal ~~(z, r)~~ and at least a reference signal ~~(y)~~; and

a spectral processor ~~(PP)~~ coupled to the audio signal ~~(z, r, y)~~ inputs for processing the distorted desired signal in order to provide just the desired signal, said spectral processor using ~~(z, r) by means of~~ the at least one reference signal ~~(y) acting~~ as an estimate for the distortion of the desired signal, characterized in that the spectral processor ~~(PP) is arranged for modifying said processing~~ processes said distorted desired signal in such a way that the estimate for the distortion is a function of A times the spectral power of the at least one reference signal ~~(y)~~,

where A is a ratio between the time averaged spectral power of the distortion of the desired signal and the time averaged spectral power of the at least one reference signal ~~(y)~~.

10. (Currently Amended) A method for enhancing a distorted desired signal ~~(z, r)~~ in order to provide just the desired signal, said method comprising the steps of:

receiving a distorted desired signal and at least one reference signal; and

~~which signal is~~ spectrally ~~processed,~~ processing the distorted desired signal whereby the at least one reference signal ~~(y)~~ acts as an estimate for the distortion of the desired signal, characterized in that the spectral processing is performed such that the estimate for the distortion depends on A times the spectral power of the at least one reference signal ~~(y)~~, where A is the ratio between the time averaged spectral power of the distortion of the desired signal and the time averaged spectral power of the at least one reference signal ~~(y)~~.